EXHIBIT A

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Data was presented at the March 2007 American College of Cardiology conference

Protocol/Methods

Aims

This clinical trial was designed to:

- Test that allogeneic mesenchymal stem cells can be safely administered intravenously within 10 days of an acute myocardial infarction
- Provide provisional evidence to support subsequent efficacy studies

Major Inclusion Criteria

- * Adults (male or female) from 21 to 85 yrs
- * First myocardial infarction 1 to 10 days prior to randomization
- * Patent infarct-related artery demonstrated by coronary angiography
- Ejection fraction between 30% and 60% (echocardiogram or ventriculogram)
- * Hemodynamically stable for ≥ 24 hours prior to randomization
- Elevation of >2 times upper limit of normal of CK-MB or troponin during initial hospitalization for the index MI
- * Karnofsky performance status score of ≥ 60

Rationale

Mesenchymal Stem Cells (MSCs)

- * Traffic to injured tissues including myocardium
- Have potent anti-inflammatory properties
- * Preclinical studies
 - Improved tissue perfusion
 - Endogenous cardiac repair
 - Reduce cellular apoptosis
 - Functional restoration and reduced infarct size
- Have demonstrated safety and efficacy in graft vs. host disease (GvHD), Crohn's disease, and orthopedic indications

Major Endpoints

* Primary Endpoint

- Treatment emergent serious adverse events

Pre-specified Safety Measures

- Arrhythmia Holter Monitoring
- Pulmonary Function PFTs
- Ectopic tissue formation CT
- MACE
- Overall functional performance physician global assessment grading patients as improved, unchanged or worsened

Prochymal™ Trial Synopsis

- Objectives To determine the safety and exploratory efficacy of 3 different dose levels of allogeneic bone marrow-derived MSCs (Prochymal™) compared to placebo in patients post acute MI
- · Trial Design:
- Randomized, double-blind, placebo-controlled
- Dose-escalation following DSMB review after each dose cohort
- Treatment: Single infusion of investigational agent 3-10 days following MI
- ~ 0.5, 1.6, and 5 x 10° cells / Kg
- Number of Subjects:
- 60 subjects in 4 cohorts were enrolled
- 53 subjects were treated at 10 sites Trial sponsored by Osiris Therapeutics, Inc.
- TX

 1 Month 2 Months 3 Months 6 Months

 Follow-up Visits

Baseline Conditions

All Rendemly Assigned Population

	MSCs All Cohorts N=39	Placebo All Cohorts N=21	
Age (years)	59.8 (12.1)	54.3 (10.1)	
Sex			
Male	32 (82.1%)	17 (81.0%)	
Female	7 (17.9%)	4 (19.0%)	
ВМІ	29.8 (6.5)	30.3 (4.4)	
Ant MI (%)	19 (48.7%)	12 (57.1%)	
EF (%)	50.4 (10.6)	48.7 (9.6)	
PVCs (24 hrs)	211 (827)	57 (156)	
FEV1 (% pred)	74.0 (15.4)	76.7 (17.6)	

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Results

Safety Results: Adverse Events

See Contoras	MSCs (N=34)	Piacebo (N=19)	P-value Fisher's Exact Test
Total Number of Adverse Events (AEs)	181	132	
Average AEs per Patient	5.3	7.0	
Number of Subjects with at Least One AE	33 (97.1%)	19 (100.0%)	
Cardiac Disorders	15 (44.1%)	9 (47.4%)	>0.999
Gastrointestinal Disorders	9 (26.5%)	4 (21.1%)	0.749
General Disorders and Administration Site Conditions (chest pain, fatigue, etc.)	14 (41.2%)	13 (68.4%)	0.086
Immune System Disorders	2 (5.9%)*	0	0.531
Infections and Infestations	11 (32.4%)	5 (26.3%)	0.760

^{*}The first immune system disorder in the MSC group involved an upper respiratory infection and the second involved seasonal allergies

Drug related: None reported as probable

Key Safety Adverse Events

All Cohorts

Arrhythmias	Prochymal™	Placebo	Total
Total Number of AEs	7	12	19
Number of Subjects	34	19	53
Number of Subjects with at Least One AE	3 (8.8%)	7 (36.8%)	10 (18.9%)
Ventricular Tachycardia¹	1	6	
Fishers's Exact Test P-Value			10.025
Ecropic Tissue Formation (CT)			
Total Number of AEs	2 ²	1	3
Number of Subjects	34	19	53
Number of Subjects with at Least One AE	2 (5.9%)	1 (5.3%)	3 (5.7%)
Fishers's Exact Test P-Value			>0.999
De Novo Ectopic Tissue Formation	0	1	1

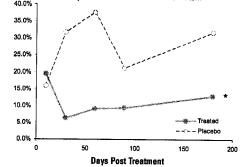
2 - Abnormatices were pre-existing at baseling

Rehospitalizations

All Cohort

	MSCs	Placebo	Total
Total Number of Rehospitalizations	9	7	16
Average per Patient	0.26	0.37	
Number of Subjects Requiring at Least One Rehospitalization	8 (23.5%)	6 (31.6%)	14 (26.4%)
Average Time to Rehospitalization in Patients with Event	120 days	66 days	

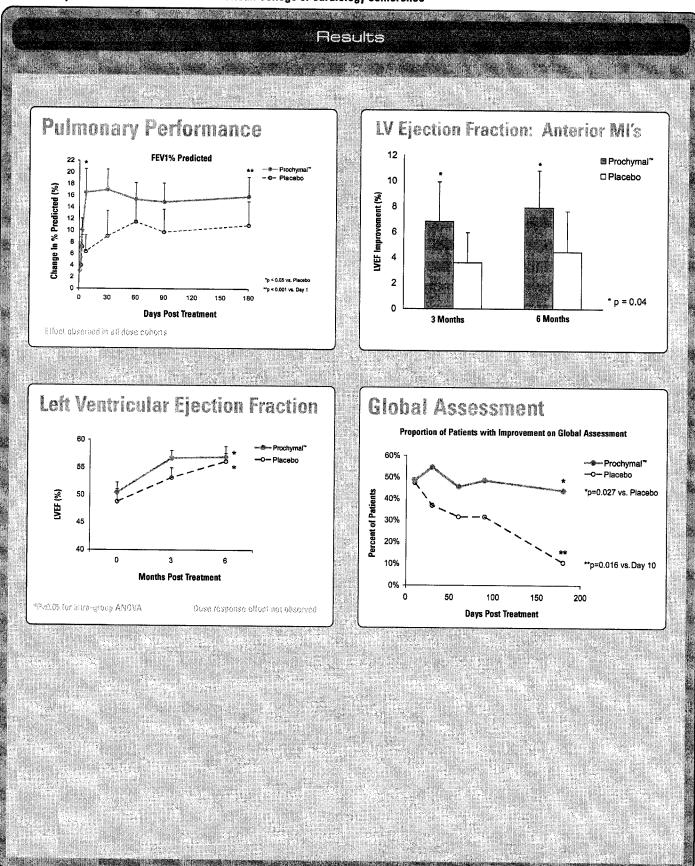
Premature Ventricular Contractions Proportion of Patients with >10 PVC/hr



P<0.01 vs placebo Dose response: Low dose not sustained

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Summary/Conclusion

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- This trial met its primary objective showing that IV administration of allogeneic MSCs is safe and well tolerated at all dose levels
- * Specific safety monitoring revealed
 - Reduction in arrhythmic AEs and PVCs on Holter Monitoring
 - No increase in ectopic tissue formation or events suggesting immunologic reactions
 - Improved pulmonary function
- Exploratory efficacy
 - Provisional evidence of improved EF, more evident in anterior MI group
 - Greater proportion of patients with improved global status
- Dose ranging
 - AE's were not dose related
 - PVC suppression not sustained at low cell dose

Conclusions

- * The excellent safety profile of allogeneic MSCs supports ongoing studies of this cell-based therapeutic approach for structural heart disease
- The provisional findings from this phase I study are consistent with favorable effects of MSC administration on LV function, electrical stability, pulmonary function, and global health status in patients with acute myocardial infarction
- Further studies with larger numbers of subjects, powered to establish clinical benefits, are warranted